

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 January 2004 (22.01.2004)

PCT

(10) International Publication Number
WO 2004/008483 A1

(51) International Patent Classification⁷: **H01J 61/067**

(21) International Application Number:
PCT/IB2003/003106

(22) International Filing Date: **2 July 2003 (02.07.2003)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:
102 32 239.2 17 July 2002 (17.07.2002) DE

(71) Applicant (*for DE only*): **PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH [DE/DE]**; Stein-damm 94, 20099 Hamburg (DE).

(71) Applicant (*for all designated States except DE, US*): **KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]**; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

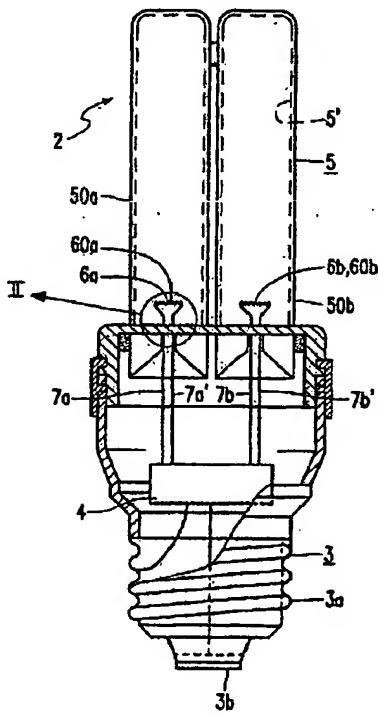
(75) Inventors/Applicants (*for US only*): **DENISSEN, Cornelis, Johannes [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissausstr. 2, 52066 Aachen (DE). RONDA, Cornelis, Reinder [NL/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissausstr. 2, 52066 Aachen (DE).**

(74) Agent: **VOLMER, Georg; Philips Intellectual Property & Standards GmbH, Weissausstr. 2, 52066 Aachen (DE).**

(81) Designated States (*national*): **AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.**

[Continued on next page]

(54) Title: **LOW-PRESSURE GAS-DISCHARGE LAMP HAVING AN ELECTRODE**



(57) Abstract: A low-pressure gas-discharge lamp provided with a gas-tight discharge vessel that contains a gas filling, with electrodes for maintaining a gas discharge in the discharge vessel, at least one of which electrodes is arranged inside the discharge vessel and comprises a coil having a core made from a first metallic refractory material that has a first electronegativity, having a surrounding winding made from a second metallic refractory material that has a second electronegativity, having a coating of an electron-emitting material arranged between the core and the winding and having current feeds, and with means for starting and maintaining a gas discharge. The invention also relates to an electrode.

WO 2004/008483 A1